

Serial No.: 09/504,660
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(formerly 07206-047001)

layer having a lattice constant different from the lattice constant of the substrate; a Schottky layer disposed over the channel layer, the Schottky layer having a lattice constant different from the lattice constant of the substrate.

With regard to point (1) above, it is noted that layer 107 is doped and therefore is not a resistive layer.

With regard to point (2), enclosed with the last response was Figure 1.6 of a book entitled: Indium Phosphide and Related Materials: Processing, Technology, and Device; editor Avisay Katz, published 1992. Such Figure clearly shows that lattice constant of a material is a function of the COMPOSITION of the material. Nothing in Onda recognizes or suggests selecting the lattice mismatches claimed in the present application. The materials set forth in Onda will not have these mismatches since there is no designation in Onda of any specific COMPOSITION of the material to produce the claimed lattice constant mismatches. Nothing in Onda suggest having the claimed mismatch so there is nothing disclosed in Onda which leads one, or describes to one, or to put one in possession of the claimed invention which include these lattice mismatches. In summary, to obtain the claimed lattice mismatches requires one to use materials having specific COMPOSITIONS-Onda gives neither specific COMPOSITIONS to produce the claimed lattice mismatches NOR does Onda suggest or indicate in any way that the materials are selected to produce the claimed lattice mismatches.

This position has not been addressed by the Examiner.

With regard to claim 31, such claim includes a resistive layer disposed over the Schottky layer. As noted above, layer 107 is doped and therefore is not a resistive layer.

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Respectfully submitted,

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Date


Richard M. Sharkansky
Attorney for Applicant(s)
Reg. No.: 25,800
Daly, Crowley, & Mofford, LLP
275 Turnpike Street, Suite 101
Canton, MA 02021-2354
Telephone: (781) 401-9988, 23
Facsimile: (781) 401-9966